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INDUSTRIAL BUILDINGS



BURTON CONSTRUCTIONAL ENGINEERING CO. LTD.

THE HISTORY OF THE CITY OF BOSTON

By SAMUEL JOHNSON, Esq. of the Middle Temple, Barrister at Law.

INDUSTRIAL BUILDINGS



BURTON CONSTRUCTIONAL ENGINEERING CO. LTD.
BURTON-ON-TRENT

TELEPHONE: NO. 731

TELEGRAMS: "STRUCTURAL, BURTON-ON-TRENT"

BURTON CONSTRUCTIONAL ENGINEERING CO LTD



BURTON-ON-TRENT



OUR WORKS FROM L.M.S. MAIN LINE.

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|---------------|------------------------------|---------------------------------------|
| LONDON OFFICE | - 25, VICTORIA STREET, S.W.1 | - - - - - Telephone : Victoria 6209 - |
| MANCHESTER | - - 27, BRAZENOSE STREET | - - - - - " Manchester 8575 |
| EXETER | - - - 46, PENNSYLVANIA ROAD | - - - - - " Exeter 3432 |
| | 48 UNION ROAD | |

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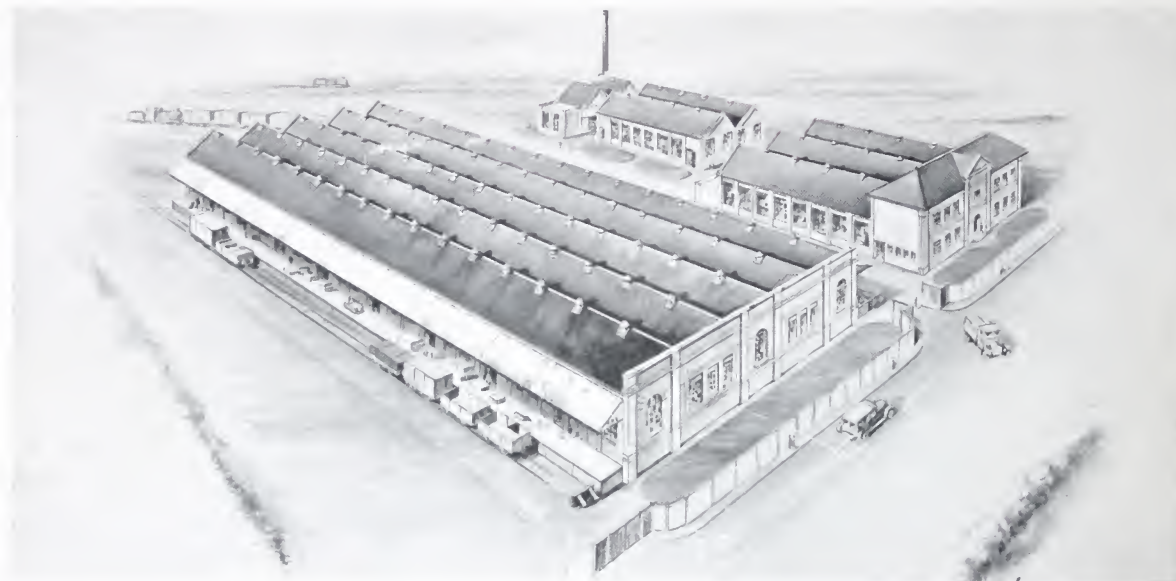


HIS illustrated booklet is designed to enable our clients and prospective purchasers to view from actual photographs of buildings recently constructed the most modern and economical arrangement of STRUCTURAL STEELWORK in actual practice, and to enable them to visualise our capacity for carrying out such contracts with speed and precision. We have a staff of trained draughtsmen always at the service of our clients to assist in the preparation of new designs, and we claim our works and the plant therein to be right up-to-date for the production of all work entrusted to us at economy prices.

A study of the ensuing pages may help you in designing new works or extensions to present buildings, and a personal call will be made by our representative at any time to suit your convenience if desired.

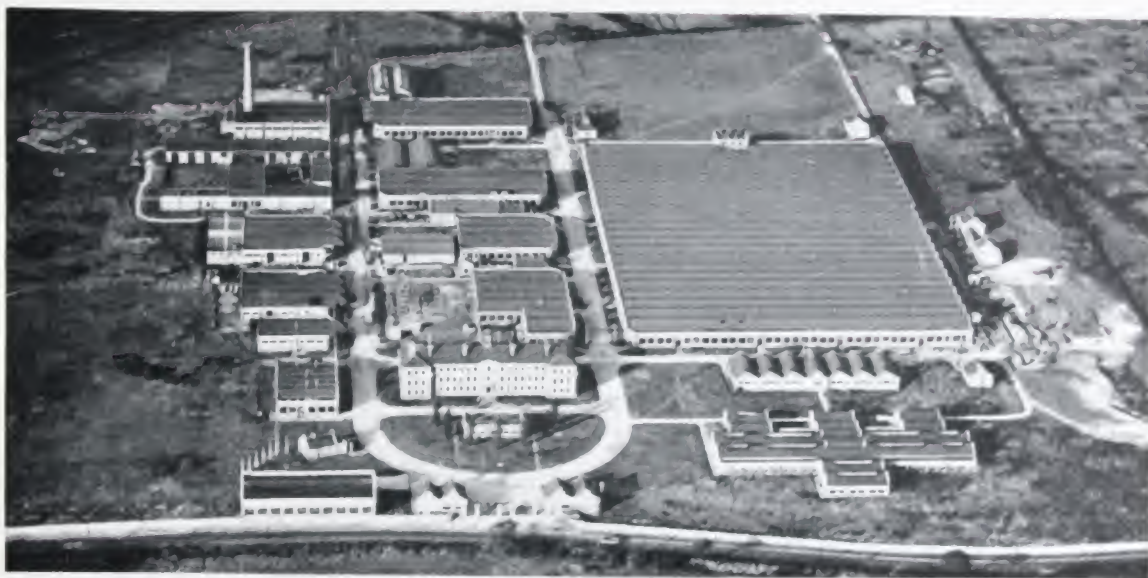
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Above we illustrate perspective view of New Works for Messrs. F. W. Hampshire & Co. (1927), Ltd., Sinfen Lane, Derby. The Structural Steelwork, in the amount of 180 tons, was carried out by us to the specification and design of A. W. Farnsworth, Esq., M.I.Struct.E., Derby, whose layout for this factory provides the utmost economy in design for the particular manufacture of the Company's well-known toilet products. It is entirely steel framed, with brick filling, the main stanchions being at 40 ft. centres on north-light bays of 28 ft. span, the roof being boarded and slated with patent glazing continuous to each bay. The Boiler House is a separate building, with the latest type economy plant. The whole contract was carried out in record time, and is a good example of medium-size factory construction throughout.

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Aerial view of Branston Artificial Silk Co.'s Works, the site covering about 200 acres, the main spinning shop alone being $6\frac{1}{2}$ acres in extent, and being a really model example of modern factory construction. Over 1500 tons of Structural Steelwork in these buildings were supplied and erected by us, the whole being panelled with light brickwork filling, with boarded and slated roofs arranged for north-light glazing. Since it was originally designed for the manufacture of machine guns many extensive alterations to suit the installation of plant for the manufacture of Artificial Silk have been carried out under the direction of the Company's Architect, Thos. Jenkins, Esq., L.R.I.B.A.

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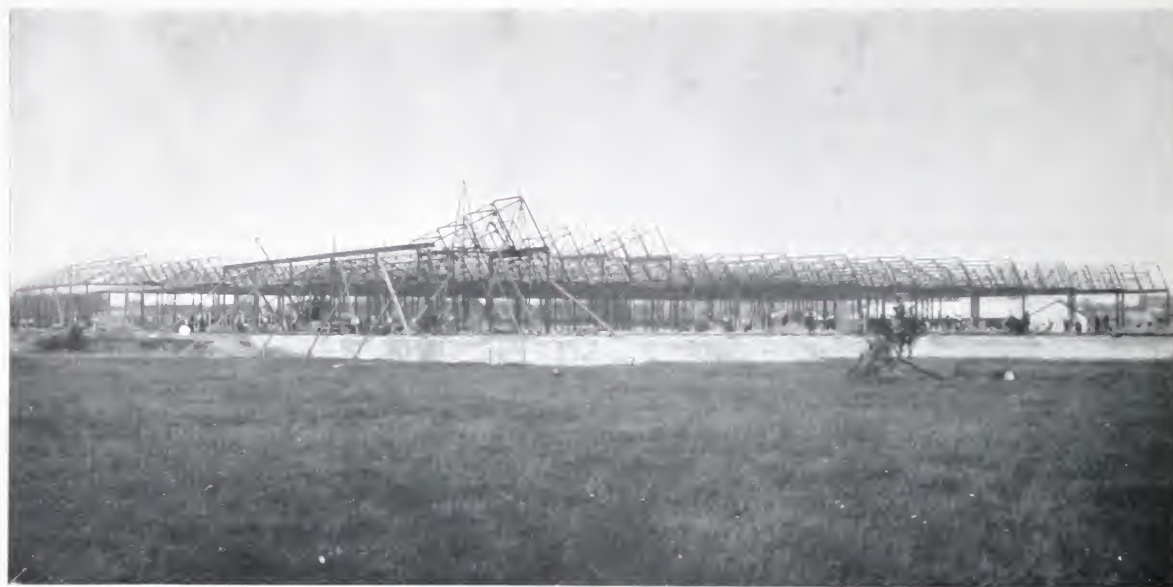
An exterior view of Dunlop Rubber Co.'s New Garage at Fort Dunlop shows the lightly panelled brick filling casing in the whole of the Structural Steelwork supplied by us, and it will be noted that the doorways, giving easy "in" and "out" positions, are arranged on the longitudinal side of the buildings. This building is a fine example of economy construction designed on the best lines to deal with modern transport requirements, and carried out under the Company's own architect, F. E. Lakeman, Esq.

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The above is an Interior view of the Dunlop Rubber Co.'s New Garage at their main extensive works, Fort Dunlop, near Birmingham. This building is in six bays of $27\frac{1}{2}$ ft. span, each 200 ft. long, with a separate Repair shop adjacent, including service and filling station for the service of the Company's own staff. The main feature in the construction is the absence of obstruction in the floor space due to the use of lattice girders, each 100 ft. long, supporting the span roofs in the depth from apex to tie-bar.

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Here we have a view of the Pirelli Co.'s New Tyre Works in course of construction at Burton-on-Trent. The main Shop, shown in the above photograph, is 513 ft. long by 308 ft. wide, in the main being of light north-light single-storey construction, with stanchions at 20 ft. 6 in. centres, being the unit adopted throughout the whole of the works. Additional heavy steelwork supporting crane gantries and in two storey portions to carry heavily loaded floors were required. The whole of the 850 tons in Structural Steelwork were supplied and erected by us in sixteen weeks under a heavy penalty and bonus (the bonus amount received by us was nearly £450 for speeding up three weeks under time on the most urgent section of the work).

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The above photograph shows the Machine and Workshops carried out under a separate contract for Messrs. Pirelli, Ltd., in connection with their New Tyre Works at Burton-on-Trent, the construction in steel framework panelled with brickwork consisting of a building 144 ft. long by 103 ft. wide, two bays having heavy Crane Gentries supported on double and treble-braced stanchions 20 ft. high, with north-light trusses and purlins supporting protected metal roof sheeting and patent glazing. An economical design in all respects for the Engineering requirements of a large works, and all carried out under the supervision of the Architect to the Company, H. D. Searles-Wood, Esq., F.R.I.B.A.

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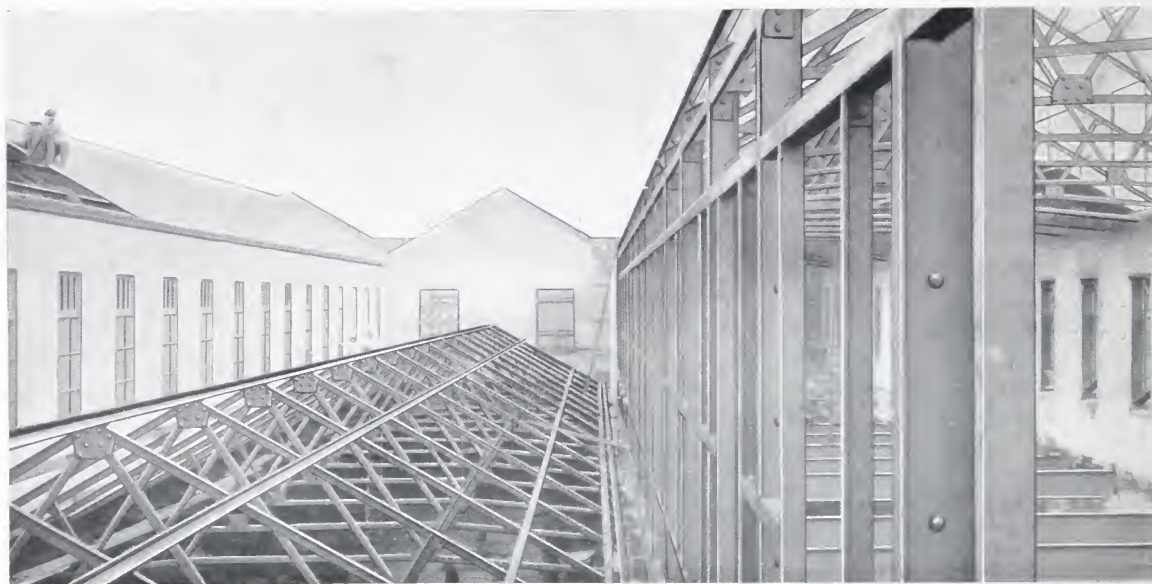
An Exterior View of roof and lean-tos over Kiln Buildings as described on page 11, showing the building after completion. The clean appearance of the asbestos sheets covering the steelwork should be noted, together with the patent glazing carried out by us under the same contract. We have expert Sheetters always working on our own staff, as many clients prefer the covering of their buildings to be carried out under the same contract and supervision.

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Structural Steelwork for roof over kiln with lean-tos around firing openings, supplied and erected by us for Messrs. Woodward & Co., Ltd., at their Swadlincote Works. This roof is 110 ft. long by 70 ft. span, supported on steel stanchions braced securely against wind pressure with steel roof purlins. The lean-tos are similarly framed, all being carried out to our own designs under the supervision of the Company's Engineer.

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Here is an example of economy construction for Messrs. Eatough's, the large Leicester boot and shoe manufacturers. An old but substantial brickwork shell, after the interior had been gutted by fire, being turned into a modern steel-framed building of two storeys, in place of the original construction of cast-iron columns supporting heavy wooden beams and timber floors. The whole of the Structural Steelwork in stanchions and R.S.I. beams with side framing and span roof trusses and purlins being covered in with Asbestos Sheetting, and the Works running fully again in very much less time than would have been possible with any other method of construction.

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A portion of Derby Cable Co.'s New Factory recently completed, showing one bay of many shops contemplated in the extensions going forward of this important works. The shop shown above is 220 ft. long by 65 ft. span, comprising heavy stanchions and girders in crane gantry for ten-ton Electric Crane. The side and end walls are partly brick panelled, with asbestos sheeting over, and the span roof has ventilators, being covered throughout with asbestos tiling on steel purlins. The present contract is approximately 400 tons in Structural Steelwork, all designed, supplied and erected by us under the direction of the Architects to the Company, Messrs. Arthur Eaton & Sons, Derby.

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We show above a general view of the extensive factory known as Silvertown Works of The India-Rubber and Gutta-Percha Co., Ltd., for which we supplied and erected the whole of the Structural Steelwork, under the supervision of Thos. Jenkins, Esq., L.R.I.B.A., Arcade Buildings, Burton-on-Trent. We are constantly making steelwork for additional buildings, and in all we have now supplied over 400 tons.

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Illustration of one of the bays of Silvertown Works, constructed of span roofs with north-light patent glazing, the roofs being boarded and slated. Light panels of brickwork are filled in between the steel framework, and the whole construction of this factory is on the most modern lines for economical equipment.

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Above we illustrate in course of erection the Structural Steelwork to the amount of 600 tons supplied and erected by us in the construction of thirty shops in one of Derby's most prominent thoroughfares. The feature of the construction in this extensive block was that each shop was of a unit size of 20 ft. wide by 60 ft. deep, the steel framework being arranged so that one, two or more shops could be let to different tenants, or the whole block to one owner as a complete stores.

Architects : Messrs. Naylor, Sale & Woore, F.F.R.I.B.A., Derby.

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The above photograph shows one of three bays, 350 ft. long by 83 ft. span, of the new Tram and Bus Sheds for the Corporation of Derby, the Structural Steelwork, together with the asbestos "Big Six" sheeting and patent glazing, being carried out by us under the supervision of the Borough Engineer and Surveyor, C. A. Clews, Esq. Similar tram and car sheds have been covered by us at Morley, Leeds and Burton-on-Trent.

BURTON CONSTRUCTIONAL ENGINEERING CO LTD



Pressed Steel Tank of 40,000 galls. capacity, with steel-framed supporting structure, for Messrs. Macintosh Cable Co., Ltd.



Typical Workshop steel-framed structures in course of erection. Designs and estimates free on receipt of requirements. Prompt delivery given.

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SPECIAL TRIANGULAR SYSTEM BICABLE DUMPING ROPEWAY. Capacity 130 Tons per hour.

Supplied by the British Ropeway Engineering Co. Ltd., London.

Aerial Ropeway Steelwork is one of our many specialities, and we have supplied a large number of contracts with the Structural Steelwork in Trestles, Towers and Stations similar to photograph above. We also make Storage Bunkers and Hoppers, etc.

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UNSOLICITED APPRECIATION

A. COTTON, SON, & HULME.

ARCHITECTS & SURVEYORS

— 784g.

TELEPHONE ~~784g.~~

TELEGRAMS COTTONS TUNSTALL

A. V. COTTON
F. V. HULME

FVH/EG

*Respectfully,
Tunstall.
Shake on Trent*

29th June 1928.

Messrs. The Burton Constructional Engineering Co., Ltd.,
BURTON - ON - TRENT.

Dear Sirs: New Offices Station Road, Tunstall.

We are in receipt of yours of the 28th inst.,
enclosing copy of Invoice which we have certified for payment,
and forwarded to Messrs. Naylor & Mutt, the builders.

We would take this opportunity of acknowledging
our appreciation of the way in which this contract has been
dealt with, both in respect to the quality of the material, the
time of delivery and the fixing.

Yours faithfully,

A. Cotton Son Hulme
28th

COMBUSTION ENGINEERING LIMITED.

DERBY.

REGISTERED OFFICE
SINFIN LANE, DERBY.

TELEGRAMS:
"UNDERPEED, DERBY"
CODES:
WESTERN UNION, A.B.C. LIEBERS
TELEPHONES:
DERBY 1681 & 1682.

DIRECTORS
G. H. WOOD, U.S.A. (CHAIRMAN)
W. GREENWOOD
B. HENDERSON
J. C. LEWIS
J. SHARP
A. J. TAYLOR
GEO. C. USHER

IN REPLY PLEASE QUOTE EG/WG.

IN REPLY TO YOURS

SUBJECT

CONTRACT NO. C.323.

Correspondents will oblige by quoting the above.
31st. May 1928.

The Burton Constructional Engineering Co. Ltd.,
BURTON - ON - TRENT.

Dear Sirs,

Test House Building.

We confirm the O.K. given to your Superintendent
Erector to-day when we finally inspected and passed the
building which you have constructed to our order quoted
above.

We are extremely pleased with the quality of the
job you have given us which is entirely and perfectly
satisfactory, and we are more than gratified that you have
kept within the delivery and completion promises which you
gave us when tendering for the work and which you confirmed
upon our acceptance of your tender. The whole job was due
for completion to-day and the building was duly handed over
to us and the whole of your men and tackle removed off the
site. - in our opinion, a very creditable performance for
which we are much obliged.

We are,

Yours faithfully,

For:- COMBUSTION ENGINEERING LIMITED,

W. Greenwood
General Manager & Director

